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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 15:39:24 ; Search time 101 Seconds
(without alignments)
527.989 Million cell updates/sec

Title: US-10-791-367-1

Perfect score: 30

Sequence: 1 caggcuacgcgtagcaucatgatccugt 30

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA.*
1: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
6: /cgn2_6/ptodata/1/ina/PCUS COMB.seq.*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	30	100.0	30	3	US-09-859-724-1
2	30	100.0	31	3	US-09-246-461-3
3	30	100.0	31	3	US-10-021-330-3
4	19.6	65.3	606	3	US-09-270-767-11347
5	19.6	65.3	615	3	US-09-270-767-14489
6	19.6	65.3	705	3	US-09-270-767-10626
7	19.6	65.3	167708	3	US-09-949-016-16423
8	19.6	65.3	603	3	US-09-489-039A-2715
9	18.8	62.7	1920	3	US-09-447-497-4
10	18.8	62.7	1932	3	US-09-447-497-1
11	18.4	61.3	485	3	US-09-533-559-2284
12	18	60.0	50	3	US-08-753-247-7
13	18	60.0	477	3	US-09-270-767-8822
14	18	60.0	477	3	US-09-270-767-24104
15	18	60.0	2142	3	US-08-753-247-8
16	17.8	59.3	601	3	US-09-949-016-44850
17	17.8	59.3	601	3	US-09-949-016-44851
18	17.8	59.3	601	3	US-09-949-016-73896
19	17.8	59.3	601	3	US-09-949-016-193773
20	17.8	59.3	601	3	US-09-949-002-4223
21	17.8	59.3	43690	3	US-09-949-016-13904
22	17.8	59.3	67745	3	US-09-949-016-17251
23	17.8	59.3	105189	3	US-09-949-016-13029
24	17.8	59.3	129554	3	US-09-949-002-765

25	17.8	59.3	179904	3	US-09-949-002-577	Sequence 577, App
26	17.8	59.3	179905	3	US-09-949-002-705	Sequence 705, App
27	17.6	58.7	3375	2	US-08-381-931B-1	Sequence 1, Appli
28	17.4	58.0	246	3	US-09-382-552-59	Sequence 59, Appli
29	17.4	58.0	705	3	US-08-781-420-8	Sequence 8, Appli
30	17.4	58.0	705	3	US-08-781-420-9	Sequence 9, Appli
31	17.4	58.0	705	3	US-08-874-102-9	Sequence 8, Appli
32	17.4	58.0	705	3	US-08-874-102-9	Sequence 9, Appli
33	17.4	58.0	705	3	US-08-984-919A-8	Sequence 8, Appli
34	17.4	58.0	705	3	US-08-984-919A-9	Sequence 9, Appli
35	17.4	58.0	705	3	US-09-006-595A-8	Sequence 8, Appli
36	17.4	58.0	705	3	US-09-006-595A-9	Sequence 9, Appli
37	17.4	58.0	707	3	US-08-781-420-5	Sequence 5, Appli
38	17.4	58.0	707	3	US-08-781-420-7	Sequence 7, Appli
39	17.4	58.0	707	3	US-08-874-102-5	Sequence 5, Appli
40	17.4	58.0	707	3	US-08-874-102-7	Sequence 7, Appli
41	17.4	58.0	707	3	US-08-984-919A-5	Sequence 5, Appli
42	17.4	58.0	707	3	US-08-984-919A-7	Sequence 7, Appli
43	17.4	58.0	707	3	US-09-006-595A-5	Sequence 5, Appli
44	17.4	58.0	707	3	US-09-006-595A-7	Sequence 7, Appli
45	17.4	58.0	993	3	US-09-489-039A-3737	Sequence 3737, Ap

ALIGNMENTS

RESULT 1
US-09-859-724-1
; Sequence 1, Application US/09859724
; Patent No. 6699843
; GENERAL INFORMATION:
; APPLICANT: Pietras, Kristian
; APPLICANT: Ostman, Arne
; APPLICANT: Heldin, Carl-Henrik
; APPLICANT: Rubin, Kristofer
; TITLE OF INVENTION: METHOD FOR TREATMENT OF TUMORS USING NUCLEIC ACID
; TITLE OF INVENTION: LIGANDS TO PDGF
; FILE REFERENCE: NEX90
; CURRENT APPLICATION NUMBER: US/09/859,724
; CURRENT FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 60/205,006
; PRIOR FILING DATE: 2000-05-17
; PRIOR APPLICATION NUMBER: 08/479,725
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/479,783
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/618,693
; PRIOR FILING DATE: 1996-03-20
; PRIOR APPLICATION NUMBER: 08/991,743
; PRIOR FILING DATE: 1997-12-16
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Nucleic Acid Ligand
; NAME/KEY: modified base
; LOCATION: (6)..(30)
; OTHER INFORMATION: U at positions 6, 20 and 30 is
; OTHER INFORMATION: 2'-fluoro-2'-deoxyuridine
; NAME/KEY: modified base
; LOCATION: (8)..(29)
; OTHER INFORMATION: C at positions 8, 21, 28, and 29 is
; OTHER INFORMATION: 2'-fluoro-2'-deoxycytidine
; NAME/KEY: modified base
; LOCATION: (9)..(31)
; OTHER INFORMATION: G at positions 9, 15, 17, and 31 is
; OTHER INFORMATION: 2'-O-Methyl-2'-deoxyguanosine
; NAME/KEY: modified base
; LOCATION: (22)

; OTHER INFORMATION: A at position 22 is 2'-O-Methyl-2'-deoxyadenosine
; NAME/KEY: modified base
; LOCATION: (1)..(30)
; OTHER INFORMATION: The residues at positions 9 and 10 are connected by a hexaethylen
; OTHER INFORMATION: phosphoramidite linker. The residues at positions 21 and 22 are
; OTHER INFORMATION: connected by a hexaethylene glycol phosphoramidite linker.
; NAME/KEY: modified_base
; LOCATION: (32)
; OTHER INFORMATION: Nucleotide 32 is an inverted orientation T
; OTHER INFORMATION: (3'-3'-linked)
US-09-859-724-1

Query Match 100.0%; Score 30; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CAGGCUACGCGTAGAGCAUCATGATCCUGT 30
|||
Db 1 CAGGCUACGCGTAGAGCAUCATGATCCUGT 30

RESULT 2

US-09-246-461-3
; Sequence 3, Application US/09246461
; Patent No. 6329145
; GENERAL INFORMATION:
; APPLICANT: Janjic, Nebojsa
; APPLICANT: Gold, Larry
; TITLE OF INVENTION: Aptamers as Reagents for high Throughput Screening
; FILE REFERENCE: NEX78
; CURRENT APPLICATION NUMBER: US/09/246,461
; CURRENT FILING DATE: 1999-02-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 31
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
; OTHER INFORMATION: ligand
; NAME/KEY: modified base
; LOCATION: (1)..(31)
; OTHER INFORMATION: The t at position 1 is 2'-NH₂. The u's and c's at
; OTHER INFORMATION: positions 7, 9, 20, 21, 27, 28 and 29 are 2'-F.
; OTHER INFORMATION: The a's and g's at positions 10, 15, 17, 22 and 30
; OTHER INFORMATION: are 2'-O-methyl.
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1)..(31)
; OTHER INFORMATION: The g at position 10 and the a at position 22 have
; OTHER INFORMATION: been modified with polyethylene glycol of 18
; OTHER INFORMATION: units.
US-09-246-461-3

Query Match 100.0%; Score 30; DB 3; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CAGGCUACGCGTAGAGCAUCATGATCCUGT 30
|||
Db 2 CAGGCUACGCGTAGAGCAUCATGATCCUGT 31

RESULT 3

US-10-021-330-3
; Sequence 3, Application US/10021330
; Patent No. 6670132
; GENERAL INFORMATION:
; APPLICANT: Janjic, Nebojsa
; APPLICANT: Gold, Larry
; TITLE OF INVENTION: Aptamers as Reagents for high Throughput Screening

; FILE REFERENCE: NEX78
; CURRENT APPLICATION NUMBER: US/10/021.330
; CURRENT FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US/09/246,461
; PRIOR FILING DATE: 1999-02-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 31
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
; OTHER INFORMATION: ligand
; NAME/KEY: modified base
; LOCATION: (1)..(31)
; OTHER INFORMATION: The t at position 1 is 2'-NH₂. The u's and c's at
; OTHER INFORMATION: positions 7, 9, 20, 21, 27, 28 and 29 are 2'-F.
; OTHER INFORMATION: The a's and g's at positions 10, 15, 17, 22 and 30
; OTHER INFORMATION: are 2'-O-methyl.
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1)..(31)
; OTHER INFORMATION: The g at position 10 and the a at position 22 have
; OTHER INFORMATION: been modified with polyethylene glycol of 18
; OTHER INFORMATION: units.
US-10-021-330-3

Query Match 100.0%; Score 30; DB 3; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CAGGCUACGCGTAGAGCAUCATGATCCUGT 30
|||
Db 2 CAGGCUACGCGTAGAGCAUCATGATCCUGT 31

RESULT 4

US-09-270-767-11347
; Sequence 11347, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11347
; LENGTH: 606
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-11347

Query Match 65.3%; Score 19.6; DB 3; Length 606;
Best Local Similarity 84.6%; Pred. No. 20;
Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 CAGGCUACGCGTAGAGCAUCATGATC 26
|||
Db 279 CAGGCUACGCGTGGAGCACCATGATC 304

RESULT 5

US-09-270-767-14489
; Sequence 14489, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14489
; LENGTH: 615
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: n means any nucleotide
US-09-270-767-14489

Query Match 65.3%; Score 19.6; DB 3; Length 615;
Best Local Similarity 84.6%; Pred. No. 21;
Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 CAGGCUACGCGTAGAGCAUCATGATC 26
Db 117 CAGGCGACGGTGGAGCACCATGATC 142

RESULT 6

; Sequence 10626, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10626
; LENGTH: 705
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-10626

Query Match 65.3%; Score 19.6; DB 3; Length 705;
Best Local Similarity 84.6%; Pred. No. 21;
Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 CAGGCUACGCGTAGAGCAUCATGATC 26
Db 543 CAGGCGACGGTGGAGCACCATGATC 568

RESULT 7

; Sequence 16423, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16423
; LENGTH: 167708
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16423

Query Match 65.3%; Score 19.6; DB 3; Length 167708;
Best Local Similarity 73.1%; Pred. No. 65;
Matches 19; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
Qy 5 CUACGCGTAGAGCAUCATGATCCUGT 30
Db 50558 CTACCGAGAGCATGATGGTCTGT 50583

RESULT 8

; US-09-489-039A-2715
; Sequence 2715, Application US/09489039A
; Patent No. 6810836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 2715
; LENGTH: 603
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-2715

Query Match 63.3%; Score 19; DB 3; Length 603;
Best Local Similarity 74.1%; Pred. No. 39;
Matches 20; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 3 GGCUACGCGTAGAGCAUCATGATCCUG 29
Db 106 GGCACACGCTGGAGCATCATCTCTG 132

RESULT 9

; US-09-447-497-4
; Sequence 4, Application US/09447497
; Patent No. 6773911
; GENERAL INFORMATION:
; APPLICANT: Penninger, Josef M.
; APPLICANT: Kroemer, Guido P.
; APPLICANT: Siderovski, David P.
; APPLICANT: Zamzami, Naoufal
; APPLICANT: Susin, Santos A.
; APPLICANT: Snow, Bryan E.L.
; TITLE OF INVENTION: APOPTOSIS-INDUCING FACTOR
; FILE REFERENCE: 01017/36780
; CURRENT APPLICATION NUMBER: US/09/447,497
; CURRENT FILING DATE: 1999-11-23
; EARLIER APPLICATION NUMBER: 60/109,595
; EARLIER FILING DATE: 1998-11-23
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 1920
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1875)
; FEATURE:
; OTHER INFORMATION: mouse apoptosis-inducing factor (mAIF isoform);
; OTHER INFORMATION: mAIF-alt-exon-Gold
US-09-447-497-4

Query Match 62.7%; Score 18.8; DB 3; Length 1920;
Best Local Similarity 81.8%; Pred. No. 61;
Matches 18; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```
QY 8 CCGGTAGAGCAUCATGATCCUG 29
Db 1387 CCGGTAGAGCAUCATGATCCUG 1408

RESULT 10
US-09-447-497-1
; Sequence 1, Application US/09447497
; Patent No. 6773911
; GENERAL INFORMATION:
; APPLICANT: Penninger, Josef M.
; APPLICANT: Kroemer, Guido P.
; APPLICANT: Siderovski, David P.
; APPLICANT: Zamzami, Naoufal
; APPLICANT: Susin, Santos A.
; APPLICANT: Snow, Bryan E.L.
; TITLE OF INVENTION: APOPTOSIS-INDUCING FACTOR
; FILE REFERENCE: 01017/36780
; CURRENT APPLICATION NUMBER: US/09/447,497
; CURRENT FILING DATE: 1999-11-23
; EARLIER APPLICATION NUMBER: 60/109,595
; EARLIER FILING DATE: 1998-11-23
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1932
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1887)
; FEATURE:
; OTHER INFORMATION: mouse apoptosis-inducing factor (mAIF);
; OTHER INFORMATION: mAIF-Gold.B1B
US-09-447-497-1

Query Match 62.7%; Score 18.8; DB 3; Length 1932;
Best Local Similarity 81.8%; Pred. No. 61;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 8 CCGGTAGAGCAUCATGATCCUG 29
Db 1399 CCGGTAGAGCAUCATGATCCUG 1420

RESULT 11
US-09-533-559-2284
; Sequence 2284, Application US/09533559
; Patent No. 6902887
; GENERAL INFORMATION:
; APPLICANT: Randy M. Berka
; APPLICANT: Michael W. Rey
; APPLICANT: Jeffrey R. Shuster
; APPLICANT: Sakari Kauppinen
; APPLICANT: Ib Groth Clausen
; APPLICANT: Peter Bjarke Olsen
; TITLE OF INVENTION: Methods For Monitoring Multiple Gene
; FILE REFERENCE: Expression
; FILE REFERENCE: 5849.200-US
; CURRENT APPLICATION NUMBER: US/09/533,559
; CURRENT FILING DATE: 2000-03-22
; EARLIER APPLICATION NUMBER: 09/273,623
; EARLIER FILING DATE: 1999-03-22
; NUMBER OF SEQ ID NOS: 7860
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2284
; LENGTH: 485
; TYPE: DNA
; ORGANISM: Fusarium venenatum
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(485)
; OTHER INFORMATION: n = A,T,C or G

US-09-533-559-2284
Query Match 61.3%; Score 18.4; DB 3; Length 485;
Best Local Similarity 71.4%; Pred. No. 70;
Matches 20; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 AGGCUACGGTAGAGCAUCATGATCCUG 29
Db 181 AGGCUACGGTAGAGCAUCATGATCCUG 208

RESULT 12
US-08-753-247-7/c
; Sequence 7, Application US/08753247
; Patent No. 6210929
; GENERAL INFORMATION:
; APPLICANT: SCHLOKAT, Uwe
; APPLICANT: FISCHER, Bernhard
; APPLICANT: FALKNER, Falko-Guenther
; APPLICANT: DORNER, Friedrich
; APPLICANT: EIBL, Johann
; TITLE OF INVENTION: A FUSION PROTEIN COMPRISING A FURIN
; TITLE OF INVENTION: DERIVATIVE OR A DERIVATIVE OF A FURIN ANALOGUE AND A
; TITLE OF INVENTION: HETEROLOGOUS SEQUENCE
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/753,247
; FILING DATE: 22-NOV-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AT 1928/95
; FILING DATE: 24-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 40433/149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-753-247-7

Query Match 60.0%; Score 18; DB 3; Length 50;
Best Local Similarity 69.2%; Pred. No. 68;
Matches 18; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 3 GGCUCACGGTAGAGCAUCATGATCCU 28
Db 42 GGCUCACGGTAGAGCAUCATGATCCU 17

RESULT 13
US-09-270-767-8822
; Sequence 8822, Application US/09270767
```

```
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 822
; LENGTH: 477
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-822

Query Match      60.0%; Score 18; DB 3; Length 477;
Best Local Similarity 73.1%; Pred. No. 1.1e+02;
Matches 19; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 AGGUACGCGTAGAGCAUCATGATCC 27
Db 339 AGGCTATCGGTATAGCATGATTACC 364

RESULT 14
US-09-270-767-24104
; Sequence 24104, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 24104
; LENGTH: 477
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-24104

Query Match      60.0%; Score 18; DB 3; Length 477;
Best Local Similarity 73.1%; Pred. No. 1.1e+02;
Matches 19; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 AGGUACGCGTAGAGCAUCATGATCC 27
Db 339 AGGCTATCGGTATAGCATGATTACC 364

RESULT 15
US-08-753-247-8
; Sequence 8, Application US/08753247
; Patent No. 6210929
; GENERAL INFORMATION:
; APPLICANT: SCHLOKAT, Uwe
; APPLICANT: FISCHER, Bernhard
; APPLICANT: FALKNER, Falko-Guenther
; APPLICANT: DORNER, Friedrich
; APPLICANT: EIBL, Johann
; TITLE OF INVENTION: A FUSION PROTEIN COMPRISING A FURIN
; TITLE OF INVENTION: DERIVATIVE OR A DERIVATIVE OF A FURIN ANALOGUE AND A
; TITLE OF INVENTION: HETEROLOGOUS SEQUENCE
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
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; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/753,247
; FILING DATE: 22-NOV-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AT 1928/95
; FILING DATE: 24-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 40433/149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2142 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2139
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..2139
US-08-753-247-8

Query Match      60.0%; Score 18; DB 3; Length 2142;
Best Local Similarity 69.2%; Pred. No. 1.5e+02;
Matches 18; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 3 GGUACGCGTAGAGCAUCATGATCCU 28
Db 2108 GGCTGGCGGCGGCGCATCATCATCAT 2133

Search completed: January 8, 2006, 17:08:34
Job time : 103 secs
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 15:50:54 ; Search time 560 Seconds
(without alignments)
443.002 Million cell updates/sec

Title: US-10-791-367-1

Perfect score: 30

Sequence: 1 caggcuacgcgtagagcautgatccugt 30

Scoring table: IDENTITY_NUC

Gapop 10_0 , Gapext 1.0

Searched: 9793542 seqs, 4134699005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_NA_Main:*
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2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	30	100.0	30	3	US-09-859-724-1
2	30	100.0	30	8	US-10-791-367-1
3	30	100.0	30	9	US-10-926-806-21
4	30	100.0	31	5	US-10-021-330-3
5	30	100.0	31	8	US-10-746-565-3
6	29	96.7	29	8	US-10-829-504A-8
7	29	96.7	29	9	US-10-873-853-8
8	29	96.7	29	9	US-10-980-211-8
9	19.8	66.0	2862	7	US-10-282-122A-41310
10	19.6	65.3	2349	10	US-11-097-143-16217
C 11	19.6	65.3	4992	10	US-11-097-143-16216
C 12	19.4	64.7	403	8	US-10-425-115-17734
C 13	19.4	64.7	1335	8	US-10-425-115-139288
14	19.2	64.0	466	7	US-10-767-701-23066
C 15	19	63.3	663	8	US-10-762-107-27
C 16	19	63.3	734	7	US-10-425-114-34193
C 17	19	63.3	734	8	US-10-425-115-145955
C 18	19	63.3	1359	7	US-10-437-963-24608
C 19	19	63.3	36602	8	US-10-762-107-1
C 20	19	63.3	2256646	7	US-10-470-565-1
21	18.8	62.7	396	7	US-10-424-599-92411
22	18.8	62.7	1617	8	US-10-481-113-4
23	18.8	62.7	1638	8	US-10-481-113-5

24	18.8	62.7	1857	7	US-10-437-963-74656	Sequence 74656, A
25	18.8	62.7	1920	6	US-10-308-936-4	Sequence 4, Appli
26	18.8	62.7	1932	6	US-10-308-936-1	Sequence 1, Appli
27	18.8	62.7	1932	7	US-10-419-256-1	Sequence 1, Appli
C 28	18.8	62.7	6899	3	US-09-938-842A-2030	Sequence 2030, Ap
C 29	18.8	62.7	6899	3	US-09-938-842A-2030	Sequence 2030, Ap
C 30	18.8	62.7	40633	5	US-10-087-132-1	Sequence 1, Appli
C 31	18.6	62.0	573	7	US-10-021-323-3107	Sequence 3107, Ap
C 32	18.6	62.0	652	7	US-10-021-323-1390	Sequence 1390, Ap
C 33	18.6	62.0	1430	8	US-10-767-795-86	Sequence 86, Appl
C 34	18.6	62.0	1944	7	US-10-437-963-31340	Sequence 31340, A
C 35	18.6	62.0	12195	9	US-10-661-398-13	Sequence 13, Appl
C 36	18.6	62.0	16061	9	US-10-661-398-12	Sequence 12, Appl
C 37	18.4	61.3	147	8	US-10-425-115-150217	Sequence 150217,
C 38	18.4	61.3	353	3	US-09-922-293-3640	Sequence 2640, Ap
C 39	18.4	61.3	485	8	US-10-653-047-3284	Sequence 2284, Ap
C 40	18.4	61.3	602	4	US-09-925-065A-422787	Sequence 422787,
C 41	18.4	61.3	646	5	US-10-027-632-319063	Sequence 319063,
C 42	18.4	61.3	646	6	US-10-027-632-319063	Sequence 319063,
C 43	18	60.0	541	4	US-09-925-065A-662266	Sequence 662266,
C 44	18	60.0	602	4	US-09-925-065A-788924	Sequence 788924,
C 45	18	60.0	602	4	US-09-925-065A-847051	Sequence 847051,

ALIGNMENTS

RESULT 1
US-09-859-724-1
; Sequence 1, Application US/09859724
; Patent No. US20020034506A1
; GENERAL INFORMATION:
; APPLICANT: Pietras, Kristian
; APPLICANT: Ostman, Arne
; APPLICANT: Helidin, Carl-Henrik
; APPLICANT: Rubin, Kristofer
; TITLE OF INVENTION: METHOD FOR TREATMENT OF TUMORS USING NUCLEIC ACID
; FILE REFERENCE: NEX90
; CURRENT APPLICATION NUMBER: US/09/859,724
; CURRENT FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 60/205,006
; PRIOR FILING DATE: 2000-05-17
; PRIOR APPLICATION NUMBER: 08/479,725
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/479,783
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/618,693
; PRIOR FILING DATE: 1996-03-20
; PRIOR APPLICATION NUMBER: 08/991,743
; PRIOR FILING DATE: 1997-12-16
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Nucleic Acid Ligand
; NAME/KEY: modified base
; LOCATION: (6)..(30)
; OTHER INFORMATION: U at positions 6, 20 and 30 is
; OTHER INFORMATION: 2'-fluoro-2'-deoxyuridine
; NAME/KEY: modified base
; LOCATION: (8)..(29)
; OTHER INFORMATION: C at positions 8, 21, 28, and 29 is
; OTHER INFORMATION: 2'-fluoro-2'-deoxycytidine
; NAME/KEY: modified base
; LOCATION: (9)..(31)
; OTHER INFORMATION: G at positions 9, 15, 17, and 31 is
; OTHER INFORMATION: 2'-O-Methyl-2'-deoxyguanosine
; NAME/KEY: modified base

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/ LOCATION: (22)
/ OTHER INFORMATION: A at position 22 is 2'-O-Methyl-2'-deoxyadenosine
/ NAME/KEY: modified_base
/ LOCATION: (1)..(30)
/ OTHER INFORMATION: The residues at positions 9 and 10 are connected by a hexaethylene
/ OTHER INFORMATION: phosphoramidite linker. The residues at positions 21 and 22 are
/ NAME/KEY: modified_base
/ LOCATION: (32)
/ OTHER INFORMATION: Nucleotide 32 is an inverted orientation T
/ OTHER INFORMATION: (3'-3'-linked)
US-09-859-724-1

Query Match          100.0%; Score 30; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.00046;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CAGGCUACGCGTAGAGCAUCATGATCCUGT 30

RESULT 2
US-10-791-367-1
/ Sequence 1, Application US/10791367
/ Publication No. US20040224335A1
/ GENERAL INFORMATION:
/ APPLICANT: Pietras, Kristian
/ APPLICANT: Ostman, Arne
/ APPLICANT: Heldin, Carl-Henrik
/ APPLICANT: Rubin, Kristofer
/ TITLE OF INVENTION: METHOD FOR TREATMENT OF TUMORS USING NUCLEIC ACID
/ TITLE OF INVENTION: LIGANDS TO PDGF
/ FILE REFERENCE: NEX90
/ CURRENT APPLICATION NUMBER: US/10/791,367
/ PRIOR FILING DATE: 2004-03-02
/ CURRENT APPLICATION NUMBER: US/09/859,724
/ PRIOR FILING DATE: 2001-09-21
/ PRIOR APPLICATION NUMBER: 60/205,006
/ PRIOR FILING DATE: 2000-05-17
/ PRIOR APPLICATION NUMBER: 08/479,725
/ PRIOR FILING DATE: 1995-06-07
/ PRIOR APPLICATION NUMBER: 08/479,783
/ PRIOR FILING DATE: 1995-06-07
/ PRIOR APPLICATION NUMBER: 08/618,693
/ PRIOR FILING DATE: 1996-03-20
/ PRIOR APPLICATION NUMBER: 08/991,743
/ PRIOR FILING DATE: 1997-12-16
/ NUMBER OF SEQ ID NOS: 2
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 1
/ LENGTH: 30
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic
/ OTHER INFORMATION: Nucleic Acid Ligand
/ FEATURE:
/ NAME/KEY: modified_base
/ LOCATION: (6)..(30)
/ OTHER INFORMATION: U at positions 6, 20 and 30 is
/ OTHER INFORMATION: 2'-fluoro-2'-deoxyuridine
/ FEATURE:
/ NAME/KEY: modified_base
/ LOCATION: (8)..(29)
/ OTHER INFORMATION: C at positions 8, 21, 28, and 29 is
/ OTHER INFORMATION: 2'-fluoro-2'-deoxycytidine
/ FEATURE:
/ NAME/KEY: modified_base
/ LOCATION: (9)..(31)
/ OTHER INFORMATION: G at positions 9, 15, 17, and 31 is
/ OTHER INFORMATION: 2'-O-Methyl-2'-deoxyguanosine
/ FEATURE:
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/ NAME/KEY: modified_base
/ LOCATION: (22)
/ OTHER INFORMATION: A at position 22 is 2'-O-Methyl-2'-deoxyadenosine
/ FEATURE:
/ NAME/KEY: modified_base
/ LOCATION: (1)..(30)
/ OTHER INFORMATION: The residues at positions 9 and 10 are connected by a hexaethylene
/ OTHER INFORMATION: phosphoramidite linker. The residues at positions 21 and 22 are
/ NAME/KEY: modified_base
/ LOCATION: (32)
/ OTHER INFORMATION: Nucleotide 32 is an inverted orientation T
/ OTHER INFORMATION: (3'-3'-linked)
US-10-791-367-1

Query Match          100.0%; Score 30; DB 8; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.00046;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGGCUACGCGTAGAGCAUCATGATCCUGT 30
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Db 1 CAGGCUACGCGTAGAGCAUCATGATCCUGT 30

RESULT 3
US-10-926-806-21
/ Sequence 21, Application US/10926806
/ Publication No. US2005009257A1
/ GENERAL INFORMATION:
/ APPLICANT: SHIMA, DAVID
/ APPLICANT: CALIAS, PERRY
/ APPLICANT: ADAMIS, ANTHONY P.
/ TITLE OF INVENTION: COMBINATION THERAPY FOR THE TREATMENT OF OCULAR
/ TITLE OF INVENTION: NEOVASCULAR DISORDERS
/ FILE REFERENCE: 112089.184 EYE-013
/ CURRENT APPLICATION NUMBER: US/10/926,806
/ CURRENT FILING DATE: 2004-08-26
/ PRIOR APPLICATION NUMBER: 60/556,837
/ PRIOR FILING DATE: 2004-03-26
/ PRIOR APPLICATION NUMBER: 60/498,407
/ PRIOR FILING DATE: 2003-08-27
/ NUMBER OF SEQ ID NOS: 22
/ SOFTWARE: PatentIn Ver. 3.2
/ SEQ ID NO 21
/ LENGTH: 30
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic
/ OTHER INFORMATION: anti-PDGF aptamer
US-10-926-806-21

Query Match          100.0%; Score 30; DB 9; Length 30;
Best Local Similarity 90.0%; Pred. No. 0.00046;
Matches 27; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGGCUACGCGTAGAGCAUCATGATCCUGT 30
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Db 1 CAGGCTACGCGTAGAGCATCATGATCCTGT 30

RESULT 4
US-10-021-330-3
/ Sequence 3, Application US/10021330
/ Publication No. US20020197617A1
/ GENERAL INFORMATION:
/ APPLICANT: Janjic, Nebojsa
/ APPLICANT: Gold, Larry
/ TITLE OF INVENTION: Aptamers as Reagents for high Throughput Screening
/ FILE REFERENCE: NEX78
/ CURRENT APPLICATION NUMBER: US/10/021,330
/ CURRENT FILING DATE: 2001-12-10
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;; PRIOR APPLICATION NUMBER: US/09/246,461
;; PRIOR FILING DATE: 1999-02-09
;; NUMBER OF SEQ ID NOS: 4
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 3
;; LENGTH: 31
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
;; OTHER INFORMATION: ligand
;; FEATURE:
;; NAME/KEY: modified base
;; LOCATION: (1)..(31)
;; OTHER INFORMATION: The t at position 1 is 2'-NH₂. The u's and c's at
;; OTHER INFORMATION: positions 7, 9, 20, 21, 27, 28 and 29 are 2'-F.
;; OTHER INFORMATION: The a's and g's at positions 10, 15, 17, 22 and 30
;; OTHER INFORMATION: are 2'-O-methyl.
;; FEATURE:
;; NAME/KEY: modified base
;; LOCATION: (1)..(31)
;; OTHER INFORMATION: The g at position 10 and the a at position 22 have
;; OTHER INFORMATION: been modified with polyethylene glycol of 18
;; OTHER INFORMATION: units.
US-10-021-330-3

Query Match 100.0%; Score 30; DB 5; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.00046;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 2 CAGGCUACGCGTAGAGCAUCAUCATGATCCUGT 31

RESULT 5
US-10-746-565-3
;; Sequence 3, Application US/10746565
;; Publication No. US20050048521A1
;; GENERAL INFORMATION:
;; APPLICANT: Janjic, Nebojsa
;; APPLICANT: Gold, Larry
;; TITLE OF INVENTION: Aptamers as Reagents for high Throughput Screening
;; FILE REFERENCE: NEX78
;; CURRENT FILING DATE: 2003-12-24
;; PRIOR APPLICATION NUMBER: US/10/746,565
;; PRIOR FILING DATE: 2001-12-10
;; PRIOR APPLICATION NUMBER: US/09/246,461
;; PRIOR FILING DATE: 1999-02-09
;; NUMBER OF SEQ ID NOS: 4
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 3
;; LENGTH: 31
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
;; OTHER INFORMATION: ligand
;; FEATURE:
;; NAME/KEY: modified base
;; LOCATION: (1)..(31)
;; OTHER INFORMATION: The t at position 1 is 2'-NH₂. The u's and c's at
;; OTHER INFORMATION: positions 7, 9, 20, 21, 27, 28 and 29 are 2'-F.
;; OTHER INFORMATION: The a's and g's at positions 10, 15, 17, 22 and 30
;; OTHER INFORMATION: are 2'-O-methyl.
;; FEATURE:
;; NAME/KEY: modified base
;; LOCATION: (1)..(31)
;; OTHER INFORMATION: The g at position 10 and the a at position 22 have
;; OTHER INFORMATION: been modified with polyethylene glycol of 18
;; OTHER INFORMATION: units.
US-10-746-565-3

Query Match 100.0%; Score 30; DB 8; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.00046;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 2 CAGGCUACGCGTAGAGCAUCAUCATGATCCUGT 31

RESULT 6
US-10-829-504A-8
;; Sequence 8, Application US/10829504A
;; Publication No. US20040253679A1
;; GENERAL INFORMATION:
;; APPLICANT: Epstein, David
;; APPLICANT: Grate, Dilara
;; APPLICANT: Stanton, Martin
;; APPLICANT: Diener, John L.
;; APPLICANT: Wilson, Charles
;; APPLICANT: McCauley, Thomas
;; APPLICANT: DeSouza, Errol
;; TITLE OF INVENTION: Stabilized Aptamers to Platelet Derived Growth Factor and Their
;; TITLE OF INVENTION: Use as Oncology Therapeutics
;; FILE REFERENCE: 23239-558A
;; CURRENT APPLICATION NUMBER: US/10/829,504A
;; CURRENT FILING DATE: 2004-04-21
;; PRIOR APPLICATION NUMBER: 10/762915
;; PRIOR FILING DATE: 2004-01-21
;; PRIOR APPLICATION NUMBER: 60/441357
;; PRIOR FILING DATE: 2003-01-21
;; PRIOR APPLICATION NUMBER: 60/463095
;; PRIOR FILING DATE: 2003-04-15
;; PRIOR APPLICATION NUMBER: 60/464179
;; PRIOR FILING DATE: 2003-04-21
;; PRIOR APPLICATION NUMBER: 60/465055
;; PRIOR FILING DATE: 2003-04-23
;; PRIOR APPLICATION NUMBER: 60/469628
;; PRIOR FILING DATE: 2003-05-08
;; PRIOR APPLICATION NUMBER: 60/474680
;; PRIOR FILING DATE: 2003-05-29
;; PRIOR APPLICATION NUMBER: 60/491019
;; PRIOR FILING DATE: 2003-07-29
;; PRIOR APPLICATION NUMBER: 60/512071
;; PRIOR FILING DATE: 2003-10-17
;; PRIOR APPLICATION NUMBER: 60/537201
;; PRIOR FILING DATE: 2004-01-16
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 98
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 8
;; LENGTH: 29
;; TYPE: DNA
;; ORGANISM: Artificial
;; FEATURE:
;; OTHER INFORMATION: aptamer
US-10-829-504A-8

Query Match 96.7%; Score 29; DB 8; Length 29;
Best Local Similarity 89.7%; Pred. No. 0.0014;
Matches 26; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CAGGCUACGCGTAGAGCAUCAUCATGATCCUG 29

RESULT 7
US-10-873-853-8
;; Sequence 8, Application US/10873853
;; Publication No. US20050124565A1
;; GENERAL INFORMATION:
;; APPLICANT: Epstein, David

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; APPLICANT: Grate, Dilara
; APPLICANT: Stanton, Martin
; APPLICANT: Diener, John
; APPLICANT: Wilson, Charles
; APPLICANT: McCauley, Thomas
; APPLICANT: DeSouza, Erol
; TITLE OF INVENTION: Stabilized Aptamers to Platelet Derived Growth Factor and Their
; FILE REFERENCE: 23239-558A CIP
; CURRENT APPLICATION NUMBER: US/10/873,853
; CURRENT FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: 10/829504
; PRIOR FILING DATE: 2004-04-21
; PRIOR APPLICATION NUMBER: 10/762915
; PRIOR FILING DATE: 2004-01-21
; PRIOR APPLICATION NUMBER: 10/718833
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/441357
; PRIOR FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: 60/463095
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: 60/428102
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/464179
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/465055
; PRIOR FILING DATE: 2003-04-23
; PRIOR APPLICATION NUMBER: 60/512071
; PRIOR FILING DATE: 2003-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: aptamer
; US-10-873-853-8

Query Match          96.7%; Score 29; DB 9; Length 29;
Best Local Similarity 89.7%; Pred. No. 0.0014;
Matches 26; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGGCUACGCGTAGAGCAUCATGATCCUG 29
    |||||:|||||:|||||:|||||:|||||:|
Db 1 CAGGCTACGCGTAGAGCATCATGATCCTG 29

RESULT 8
US-10-980-211-8
; Sequence 8, Application US/10980211
; Publication No. US20050159351A1
; GENERAL INFORMATION:
; APPLICANT: Grate, Dilara
; APPLICANT: Diener, John
; APPLICANT: Wilson, Charles
; APPLICANT: McCauley, Thomas
; TITLE OF INVENTION: Stabilized Aptamers to Platelet Derived Growth Factor and Their
; FILE REFERENCE: 23239-558A CIP2
; CURRENT APPLICATION NUMBER: US/10/980,211
; CURRENT FILING DATE: 2004-11-02
; PRIOR APPLICATION NUMBER: 10/873853
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: 10/829504
; PRIOR FILING DATE: 2004-04-21
; PRIOR APPLICATION NUMBER: 10/762915
; PRIOR FILING DATE: 2004-01-21
; PRIOR APPLICATION NUMBER: 10/718833
; PRIOR FILING DATE: 2003-11-21
; APPLICANT: Grate, Dilara
; APPLICANT: Diener, John
; APPLICANT: Wilson, Charles
; APPLICANT: McCauley, Thomas
; TITLE OF INVENTION: Stabilized Aptamers to Platelet Derived Growth Factor and Their
; FILE REFERENCE: 23239-558A CIP2
; CURRENT APPLICATION NUMBER: US/10/980,211
; CURRENT FILING DATE: 2004-11-02
; PRIOR APPLICATION NUMBER: 10/873853
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: 10/829504
; PRIOR FILING DATE: 2004-04-21
; PRIOR APPLICATION NUMBER: 10/762915
; PRIOR FILING DATE: 2004-01-21
; PRIOR APPLICATION NUMBER: 10/718833
; PRIOR FILING DATE: 2003-11-21
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; PRIOR APPLICATION NUMBER: 60/441357
; PRIOR FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: 60/463095
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: 60/428102
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/464179
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/465055
; PRIOR FILING DATE: 2003-04-23
; PRIOR APPLICATION NUMBER: 60/512071
; PRIOR FILING DATE: 2003-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: aptamer
; US-10-980-211-8

Query Match          96.7%; Score 29; DB 9; Length 29;
Best Local Similarity 89.7%; Pred. No. 0.0014;
Matches 26; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGGCUACGCGTAGAGCAUCATGATCCUG 29
    |||||:|||||:|||||:|||||:|||||:|
Db 1 CAGGCTACGCGTAGAGCATCATGATCCTG 29

RESULT 9
US-10-282-122A-41310
; Sequence 41310, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA_034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41310
; LENGTH: 2862
; TYPE: DNA
; ORGANISM: Vibrio cholerae
US-10-282-122A-41310

Query Match      66.0%; Score 19.8; DB 7; Length 2862;
Best Local Similarity 87.0%; Pred. No. 54;
Matches 20; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 7  AGCGTAGAGCAUCATGATCCUG 29
    ||||| ||||| ||||| |||||
Db 98  AGCGTAGAGCATCATGATCCCG 120

RESULT 10
US-11-097-143-16217
; Sequence 16217, Application US/11097143
; Publication No. US2005020858A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CLO00728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16217
; LENGTH: 2349
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-16217

Query Match      65.3%; Score 19.6; DB 10; Length 2349;
Best Local Similarity 84.6%; Pred. No. 66;
Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1  CAGGCUACGGGTAGAGCAUCATGATC 26
    ||||| ||||| ||||| |||||
Db 1851  CAGGCGACGGGTGGAGCACCATGATC 1876

RESULT 11
US-11-097-143-16216/c
; Sequence 16216, Application US/11097143
; Publication No. US2005020858A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CLO00728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16217
; LENGTH: 2349
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-16216

Query Match      65.3%; Score 19.6; DB 10; Length 2349;
Best Local Similarity 84.6%; Pred. No. 66;
Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1  CAGGCUACGGGTAGAGCAUCATGATC 26
    ||||| ||||| ||||| |||||
Db 1851  CAGGCGACGGGTGGAGCACCATGATC 1876

; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CLO00728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16216
; LENGTH: 4992
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-16216

Query Match      65.3%; Score 19.6; DB 10; Length 4992;
Best Local Similarity 84.6%; Pred. No. 73;
Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1  CAGGCUACGGGTAGAGCAUCATGATC 26
    ||||| ||||| ||||| |||||
Db 1561  CAGGCGACGGGTGGAGCACCATGATC 1536

RESULT 12
US-10-425-115-17734/c
; Sequence 17734, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 17734
; LENGTH: 403
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_116177C.1
US-10-425-115-17734

Query Match      64.7%; Score 19.4; DB 8; Length 403;
Best Local Similarity 69.0%; Pred. No. 66;
Matches 20; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2  AGGCUACGGGTAGAGCAUCATGATCCUCT 30
    ||||| ||||| ||||| |||||
Db 330  AGCTCCCGGTAGTGGATCAAGATGCTGT 302

RESULT 13
US-10-425-115-139288
; Sequence 139288, Application US/10425115
; Publication No. US20040214272A1
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Result No.	Score	Query		DB	ID	Description
		Match	Length			
C	1	18.4	61.3	151169	7	US-11-121-086-38
	2	17.8	59.3	1110	6	US-10-750-185-25891
	3	17.8	59.3	1110	6	US-10-750-623-25891
	4	17.8	59.3	146656	7	US-11-121-086-68
	5	17.4	58.0	762	6	US-10-750-185-53338
	6	17.4	58.0	762	6	US-10-750-623-53338
C	7	17.4	58.0	1002	7	US-11-127-877-20
	8	17.4	58.0	1733	6	US-10-750-185-26283
	9	17.4	58.0	1733	6	US-10-750-623-26283
	10	17.2	57.3	1400	7	US-11-136-527-4382
	11	17.2	57.3	1896	7	US-11-136-527-224
	12	17.2	57.3	4347	7	US-11-136-527-286
C	13	17	56.7	201	6	US-10-995-561-11799
	14	17	56.7	201	6	US-10-995-561-11837
	15	17	56.7	201	6	US-10-995-561-61360
	16	17	56.7	4947	6	US-10-995-561-457
	17	17	56.7	5130	7	US-11-135-855-12
	18	17	56.7	5158	7	US-11-135-855-13
C	19	17	56.7	6719	6	US-10-995-561-456
	20	17	56.7	32157	6	US-10-995-561-13352
	21	16.8	56.0	189	7	US-11-108-172-103
	22	16.8	56.0	261	7	US-11-108-172-749
	23	16.8	56.0	387	6	US-10-467-657-2599
	24	16.8	56.0			

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; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25891
; LENGTH: 1110
; TYPE: DNA
; ORGANISM: Bovine 19866881126825
US-10-750-185-25891

Query Match      59.3%; Score 17.8; DB 6; Length 1110;
Best Local Similarity 65.5%; Pred. No. 65;
Matches 19; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 2 AGGUACGGGTAGAGCAUCATGATCCUGT 30
DB 595 AGGTACACATTCAGCATACTGATCCTGT 623

RESULT 4
US-10-750-623-25891
; Sequence 25891, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25891
; LENGTH: 1110
; TYPE: DNA
; ORGANISM: Bovine 19866881126825
US-10-750-623-25891

Query Match      59.3%; Score 17.8; DB 6; Length 1110;
Best Local Similarity 65.5%; Pred. No. 65;
Matches 19; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 2 AGGUACGGGTAGAGCAUCATGATCCUGT 30
DB 595 AGGTACACATTCAGCATACTGATCCTGT 623

RESULT 4
US-11-121-086-68/c
; Sequence 68, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 68
; LENGTH: 146656
; TYPE: DNA
; ORGANISM: Homo sapiens

; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25891
; LENGTH: 1110
; TYPE: DNA
; ORGANISM: Bovine 19866881126825
US-10-750-185-25891

Query Match      59.3%; Score 17.8; DB 6; Length 1110;
Best Local Similarity 65.5%; Pred. No. 65;
Matches 19; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 2 AGGUACGGGTAGAGCAUCATGATCCUGT 30
DB 595 AGGTACACATTCAGCATACTGATCCTGT 623

RESULT 4
US-10-750-623-25891
; Sequence 25891, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25891
; LENGTH: 1110
; TYPE: DNA
; ORGANISM: Bovine 19866881126825
US-10-750-623-25891

Query Match      59.3%; Score 17.8; DB 6; Length 1110;
Best Local Similarity 65.5%; Pred. No. 65;
Matches 19; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 2 AGGUACGGGTAGAGCAUCATGATCCUGT 30
DB 595 AGGTACACATTCAGCATACTGATCCTGT 623

RESULT 4
US-11-121-086-68/c
; Sequence 68, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 68
; LENGTH: 146656
; TYPE: DNA
; ORGANISM: Homo sapiens

; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25891
; LENGTH: 1110
; TYPE: DNA
; ORGANISM: Bovine 19866881126825
US-10-750-185-25891

Query Match      59.3%; Score 17.8; DB 6; Length 1110;
Best Local Similarity 65.5%; Pred. No. 65;
Matches 19; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 2 AGGUACGGGTAGAGCAUCATGATCCUGT 30
DB 595 AGGTACACATTCAGCATACTGATCCTGT 623

RESULT 4
US-10-750-623-25891
; Sequence 25891, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53338
; LENGTH: 762
; TYPE: DNA
; ORGANISM: Bovine 19866881728240
US-10-750-185-53338

Query Match      58.0%; Score 17.4; DB 6; Length 762;
Best Local Similarity 66.7%; Pred. No. 94;
Matches 18; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 3 GGUACGGGTAGAGCAUCATGATCCUG 29
DB 123 GGCTACTCGGAGTGATCGTGACCGTG 97

RESULT 6
US-10-750-623-53338/c
; Sequence 5338, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53338
; LENGTH: 762
; TYPE: DNA
; ORGANISM: Bovine 19866881728240
US-10-750-623-53338

Query Match      58.0%; Score 17.4; DB 6; Length 762;
Best Local Similarity 66.7%; Pred. No. 94;
Matches 18; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 3 GGUACGGGTAGAGCAUCATGATCCUG 29
DB 123 GGCTACTCGGAGTGATCGTGACCGTG 97

RESULT 6
US-10-750-623-53338/c
; Sequence 5338, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53338
; LENGTH: 762
; TYPE: DNA
; ORGANISM: Bovine 19866881728240
US-10-750-623-53338

Query Match      58.0%; Score 17.4; DB 6; Length 762;
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Best Local Similarity 66.7%; Pred. No. 94;
Matches 18; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 3 GCUACGGCTAGAGCAUCATGATCCUG 29
|||:|||||:|||||:|||||:|
Db 123 GCGTACTCGGAGTGCATCGTGACCGTG 97

RESULT 7
US-11-127-877-20
; Sequence 20, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Merchiers, Pascal G.
; APPLICANT: Hoffmann, Marcel
; APPLICANT: Spittaels, Koenraad F. F.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
; TITLE OF INVENTION: Amyloid-Beta Protein Production
; FILE REFERENCE: P27,800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 1002
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-127-877-20

Query Match 58.0%; Score 17.4; DB 7; Length 1002;
Best Local Similarity 66.7%; Pred. No. 98;
Matches 18; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 4 GCUACGGCTAGAGCAUCATGATCCUGT 30
|||:|||||:|||||:|||||:|
Db 611 GCTAGTGGAGATCTTCAGACCTGT 637

RESULT 8
US-10-750-185-26283
; Sequence 26283, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26283
; LENGTH: 1733
; TYPE: DNA
; ORGANISM: Bovine 19866881128530
US-10-750-185-26283

Query Match 58.0%; Score 17.4; DB 6; Length 1733;
Best Local Similarity 70.4%; Pred. No. 1.1e+02;
Matches 19; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 4 GCUACGGCTAGAGCAUCATGATCCUGT 30
|||:|||||:|||||:|||||:|
Db 1042 GTTACACCAAGCAGCAGCATGCTCTTT 1068

RESULT 9
US-10-750-623-26283
; Sequence 26283, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26283
; LENGTH: 1733
; TYPE: DNA
; ORGANISM: Bovine 19866881128530
US-10-750-623-26283

Query Match 58.0%; Score 17.4; DB 6; Length 1733;
Best Local Similarity 70.4%; Pred. No. 1.1e+02;
Matches 19; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 4 GCUACGGCTAGAGCAUCATGATCCUGT 30
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Db 1042 GTTACACCAAGCAGCAGCATGCTCTTT 1068

RESULT 10
US-11-136-527-4382/c
; Sequence 4382, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4382
; LENGTH: 1400
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-4382

Query Match 57.3%; Score 17.2; DB 7; Length 1400;
Best Local Similarity 63.3%; Pred. No. 1.3e+02;
Matches 19; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

QY 1 CAGGCUACGGCTAGAGCAUCATGATCCUGT 30
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Db 511 CAGCATCGTGTAGGGCATCTGGCTCTGT 482

RESULT 11
US-11-136-527-224/c
; Sequence 224, Application US/11136527

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; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 224
; LENGTH: 1696
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-224

Query Match      57.3%; Score 17.2; DB 7; Length 1696;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 20; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

QY 1 CAGGCUACCGGTAGAGCAUCATGATCCUGT 30
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RESULT 12
US-11-136-527-286/c
; Sequence 286, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 286
; LENGTH: 4347
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-286

Query Match      57.3%; Score 17.2; DB 7; Length 4347;
Best Local Similarity 63.3%; Pred. No. 1.5e+02;
Matches 19; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

QY 1 CAGGCUACCGGTAGAGCAUCATGATCCUGT 30
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Db 3458 CAGCATCCGTGTAGGCGATCTGCTCCTGT 3429

RESULT 13
US-10-995-561-11799/c
; Sequence 11799, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11799
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-11799

Query Match      56.7%; Score 17; DB 6; Length 201;
Best Local Similarity 72.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 CAGGCUACCGGTAGAGCAUCATGAT 25
   |||||:|||||:|||||:|||||:|||||:
Db 179 CAGGCTCCACGAGACCATCATGTT 155

RESULT 14
US-10-995-561-11837/c
; Sequence 11837, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11837
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-11837

Query Match      56.7%; Score 17; DB 6; Length 201;
Best Local Similarity 72.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 CAGGCUACCGGTAGAGCAUCATGAT 25
   |||||:|||||:|||||:|||||:|||||:
Db 179 CAGGCTCCACGAGACCATCATGTT 155

RESULT 15
US-10-995-561-61360/c
; Sequence 61360, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 61360
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-61360

Query Match      56.7%; Score 17; DB 6; Length 201;
Best Local Similarity 72.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 CAGGCUACCGGTAGAGCAUCATGAT 25
   |||||:|||||:|||||:|||||:|||||:
Db 179 CAGGCTCCACGAGACCATCATGTT 155

Search completed: January 8, 2006, 17:22:16
Job time : 245 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 15:02:49 ; Search time 1726 Seconds
(without alignments)
988.009 Million cell updates/sec

Title: US-10-791-367-1

Perfect score: 30

Sequence: 1 caggcuacgctagagcaucatgccugt 30

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 2842172553 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl.*

1: gb_ba.*

2: gb_in.*

3: gb_env.*

4: gb_om.*

5: gb_ov.*

6: gb_pat.*

7: gb_ph.*

8: gb_pr.*

9: gb_ro.*

10: gb_sts.*

11: gb_sy.*

12: gb_un.*

13: gb_vi.*

14: gb_htg.*

15: gb_pl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	30	100.0	30	6	CS079386	Sequence
2	30	100.0	30	6	AR481874	Sequence
3	30	100.0	31	6	BD249885	Aptamers
4	30	100.0	31	6	AR366193	Sequence
5	30	100.0	31	6	AR42638	Sequence
C 6	21.6	72.0	214332	14	AC120945	AC120945 Rattus no
7	21	70.0	226789	14	AC123112	AC123112 Rattus no
8	20	66.7	6002	15	AJ616913	AJ616913 Sordaria
9	20	66.7	110000	1	BX571965	Continuation (11 o
C 10	20	66.7	110000	1	CP000010	Continuation (24 o
11	20	66.7	163878	2	AC150398	AC150398 Branchios
C 12	20	66.7	172391	14	AC155516	AC155516 Zea mays
13	20	66.7	174312	14	AC145730	AC145730 Zea mays
C 14	20	66.7	181826	14	AC155574	AC155574 Zea mays
15	19.8	66.0	10205	1	AE004320	AE004320 Vibrio ch
16	19.6	65.3	606	6	AR506387	Sequence
17	19.6	65.3	615	6	AR509529	Sequence
18	19.6	65.3	705	6	AR505666	Sequence

19	19.6	65.3	2186	2	AY058696	AY058696 Drosophil
20	19.6	65.3	2349	6	CQ588459	Sequence
21	19.6	65.3	2782	2	AY052083	Drosophil
C 22	19.6	65.3	4992	6	CQ588458	Sequence
23	19.6	65.3	49054	14	AC019890	AC019890 Drosophil
24	19.6	65.3	104135	8	AC113373	AC113373 Homo sapi
C 25	19.6	65.3	123275	8	AC008779	AC008779 Homo sapi
26	19.6	65.3	175867	2	AC007976	Drosophil
C 27	19.6	65.3	185689	13	AY261364	AY261364 African s
28	19.6	65.3	346734	2	AE003584	AE003584 Drosophil
29	19.4	64.7	153129	9	AC163209	AC163209 Mus muscu
C 30	19.4	64.7	169815	9	AC122057	AC122057 Mus muscu
31	19.4	64.7	175651	14	AC150605	AC150605 Callithri
C 32	19.4	64.7	230041	9	AC111047	AC111047 Mus muscu
33	19.4	64.7	251257	14	AC095972	AC095972 Rattus no
34	19.2	64.0	159866	8	AC016598	AC016598 Homo sapi
35	19	63.3	603	6	AR385986	AR385986 Sequence
C 36	19	63.3	663	6	CQ879025	Sequence
37	19	63.3	1269	6	AX653992	Sequence
C 38	19	63.3	1692	9	BC085826	BC085826 Rattus no
C 39	19	63.3	36602	6	CQ878999	Sequence
C 40	19	63.3	44343	1	AP004312	AP004312 Synchocy
C 41	19	63.3	87792	15	AP003837	AP003837 Oryza sat
C 42	19	63.3	110000	1	AE014295	Continuation (22 o
C 43	19	63.3	110000	15	AP008213	Continuation (59 o
44	19	63.3	114104	9	BX545849	BX545849 Mouse DNA
C 45	19	63.3	151721	15	AP003943	AP003943 Oryza sat

ALIGNMENTS

RESULT 1	CS079386	Sequence 21 from Patent WO2005020972.	30 bp	DNA	linear	PAT 06-MAY-2005
LOCUS	CS079386					
DEFINITION	CS079386					
ACCESSION	CS079386.1	GI:63093789				
VERSION	CS079386.1					
KEYWORDS						
SOURCE						
ORGANISM						
REFERENCE						
AUTHORS						
TITLE						
JOURNAL						
FEATURES						
source						
ORIGIN						
Query Match						
Best Local Similarity						
Matches						
Oy						
Db						
RESULT 2						
LOCUS						
DEFINITION						
ACCESSION						
VERSION						
KEYWORDS						

unordered pieces.

AC123112
AC123112.4 GI:30580864
HTG; HTGS PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE
Rattus norvegicus (Norway rat)

ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridae; Murinae; Rattus

REFERENCE
Muzny, D. Marie., Metzker, M. Lee., Abramson, S., Adams, C., Alder, J.,
Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anguiano, D.,
Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H.,
Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F.,
Biewald, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M.,
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Cardenas, V., Carter, K., Cavazos, I., Ceasar, H., Center, A.,
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Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L.,
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Hollins, B., Howells, S., Hulyk, S., Hume, J., Idlebird, D., Jackson, A.,
Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A.,
Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C., Kowis, C., Kraft, C. L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J.,
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Steinle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C.,
Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Umani, K.,
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Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V.,
Yu, F., Zhang, J., Zhou, J., Zhou, S., Zhao, S., Dunn, D., von
Weinstock, G., and Gibbs, R. A.

Direct Submission
Unpublished
2 (bases 1 to 226789)
Worley, K. C.

TITLE
JOURNAL
Rat Genome Sequencing Consortium.
REFERENCE
Submitted (29-MAY-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 226789)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (13-MAY-2003) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

On May 13, 2003 this sequence version replaced gi:23265213.
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GLAC
Center clone name: CH230-174P11
----- Summary Statistics
Assembly program: Atlas 3.0;
Consensus quality: 219487 bases at least Q40
Consensus quality: 221101 bases at least Q30
Consensus quality: 222209 bases at least Q20
Estimated insert size: 227073; sum-of-contigs estimation
Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
(see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 2 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

1 225474: contig of 225474 bp in length
225475 225574: gap of unknown length
225575 226789: contig of 1215 bp in length.

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end sequence: BH350388"
225475..225574
/estimated_length=unknown

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misc_feature
gap
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Query Match 70.0%; Score 21; DB 14; Length 226789;
Best Local Similarity 72.4%; Pred. No. 1.9e+02;
Matches 21; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
QY 1 CAGGCUACCGCTAGAGCAUCATGATCCUG 29
||||:||||:||||:||||:||||:
Db 187544 CAGGATACCTTAGAGCATCAGCATCTTG 187572

RESULT 8
AJ616913
LOCUS
DEFINITION
Sordaria macrospora pro40 gene for putative signalling cascade

component, exons 1-2.	
ADJ616913	
ADJ616913.1	GI:39645990
KEYWORDS	pro40 gene; putative signalling cascade component.
SOURCE	Sordaria macrospora
ORGANISM	Sordaria macrospora
Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes; Sordariomycetidae; Sordariales; Sordariaceae; Sordaria.	
1	
Witzel-Schloemp, K., Strauch, P., Zhang, H. and Kueck, U.	
Molecular genetic characterization of the developmental mutant	
pro40 from Sordaria macrospora: Identification of a putative	
component of a signalling cascade	
Unpublished	
2 (bases 1 to 6002)	
Witzel-Schloemp, K.	
Direct Submission	
Submitted (09-DEC-2003)	Witzel-Schloemp K., LS Allgemeine und
Molekulare Botanik, Ruhr-Universitaet Bochum, Universitaetstrasse	
150, 44780 Bochum, GERMANY	
FEATURES	
Location/Qualifiers	
1..6002	
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exon	

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ORIGIN
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Best Local Similarity 71.4%; Pred. No. 4.3e+02;
Matches 20; Conservative 3; Mismatches 5; Indels 0;

QY 1 CAGGCUACGCGTAGAGCAUCATGATCCU 28
    |||||:|||||:|||||:|||||:
Db 2284 CAGGCTACGCCGGAAGCATCATGACCGT 2311

RESULT 9
BX571965_10
WPCOMMENT
Sequence split into 41 fragments LOCUS BX571965 Accession BX571965
Fragment Name      Begin      End
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BX571965_01      100001    210000
BX571965_02      200001    310000
BX571965_03      300001    410000
BX571965_04      400001    510000
BX571965_05      500001    610000
BX571965_06      600001    710000
BX571965_07      700001    810000
BX571965_08      800001    910000
BX571965_09      900001   1010000
BX571965_10     100001   1110000
BX571965_11     1100001   1210000
BX571965_12     1200001   1310000
BX571965_13     1300001   1410000
BX571965_14     1400001   1510000
BX571965_15     1500001   1610000
BX571965_16     1600001   1710000
BX571965_17     1700001   1810000
BX571965_18     1800001   1910000
BX571965_19     1900001   2010000
BX571965_20     2000001   2110000
BX571965_21     2100001   2210000
BX571965_22     2200001   2310000
BX571965_23     2300001   2410000
BX571965_24     2400001   2510000
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BX571965_26     2600001   2710000
BX571965_27     2700001   2810000
BX571965_28     2800001   2910000
BX571965_29     2900001   3010000
BX571965_30     3000001   3110000
BX571965_31     3100001   3210000
BX571965_32     3200001   3310000
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BX571965_36     3600001   3710000
BX571965_37     3700001   3810000
BX571965_38     3800001   3910000
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BX571965_40     4000001   4074542
Continuation (11 of 41) of BX571965 from base 1000001 (BX571965 Burkha

Query Match          66.7%; Score 20; DB 1; Length 110000;
Best Local Similarity 75.0%; Pred. No. 5.3e+02;
Matches 21; Conservative 2; Mismatches 5; Indels 0;

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Db 53276 GCGTACGCGTAGAGCTCGCTGATCCTGT 53303

RESULT 10
CP000010.23/c
WPCOMMENT
Sequence split into 36 fragments LOCUS CP000010 Accession CP000010

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TITLE
JOURNAL
RESEARCH
AUTHORS

Macdonald, P., Major, J., Manning, J., Matthews, C., McCarthy, M.,
Meldrum, J., Meneus, L., Mihova, T., Mlenga, V., Murphy, T., Naylor, J.,
Nguyen, C., Nicol, R., Norbu, C., O'Connor, T., O'Donnell, P.,
O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N.,
Rachupka, A., Ramasamy, U., Raymond, C., Retta, R., Rise, C., Rogov, P.,
Roman, J., Schauer, S., Schupback, R., Seaman, S., Severy, P., Smith, C.,
Spencer, B., Stange-Thomann, N., Stojanovic, N., Stubbs, M.,
Talamas, J., Testaye, S., Theodore, J., Topham, K., Travers, M.,
Vassiliev, H., Venkataraman, V.S., Viel, R., Vo, A., Wilson, B., Wu, X.,
Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

Direct Submission
Submitted (23-JUL-2003) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
3 (bases 1 to 174912)
Birren, B., Nusbaum, C., Lander, E., Butler, E., Wing, R., Bhatti, A.K.,
Messing, J., Aboueleil, A., Allen, N., Anderson, M., Anderson, S.,
Arachchi, H.M., Barna, N., Bastien, V., Bloom, T., Boguslavskiy, L.,
Boukgaier, B., Camarata, J., Chang, J., Choepel, Y., Collymore, A.,
Cook, A., Cooke, P., Corum, B., Dearellano, K., Diaz, J.S., Dodge, S.,
Dooley, K., Dorris, L., Erickson, J., Fato, S., Ferreira, P.,
FitzGerald, M., Gage, D., Galagan, J., Gardyna, S., Graham, L.,
Grand-Pierre, N., Hafez, N., Hagopian, D., Hagos, B., Hall, J.,
Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A.,
Karacas, A., Kells, C., Landers, T., Levine, R., Lindblad-Toh, K.,
Liu, G., Liu, X., Lui, A., Mabbitt, R., Maclean, C., Macdonald, P.,
Major, J., Manning, J., Matthews, C., McCarthy, M., Meldrum, J.,
Meneus, L., Mihova, T., Mlenga, V., Murphy, T., Naylor, J., Nguyen, C.,
Nguyen, T., Nicol, R., Norbu, C., O'Connor, T., O'Donnell, P.,
O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N.,
Rachupka, A., Ramasamy, U., Raymond, C., Retta, R., Rise, C., Rogov, P.,
Roman, J., Schauer, S., Schupback, R., Seaman, S., Severy, P., Smith, C.,
Spencer, B., Stange-Thomann, N., Stojanovic, N., Stubbs, M.,
Talamas, J., Testaye, S., Theodore, J., Topham, K., Travers, M.,
Vassiliev, H., Venkataraman, V.S., Viel, R., Vo, A., Wilson, B., Wu, X.,
Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

Direct Submission
Submitted (16-JUN-2004) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Jun 16, 2004 this sequence version replaced gi:48717645.
All repeats were identified using RepeatMasker:
Smit, A.P.A. & Green, P. (1996-1997)
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

Genome Center
Center: Whitehead Institute/MIT Center for Genome Research
Center code: WIBR
Web site: <http://www-seq.wi.mit.edu>
Contact: sequence_submissions@broad.mit.edu

Bhatti, AK and Messing, J: The Plant Genome Initiative at
Rutgers, Waksman Institute, Rutgers, The State University of New
Jersey, 190 Frelinghuysen Road, Piscataway, NJ 08854, USA
(<http://pgir.rutgers.edu>)
Butler, E and Wing, R: Arizona Genomics Institute, Biological
Sciences West, 448A, P.O. Box 210088, University of Arizona,
Tucson, AZ 85721, USA (<http://www.genome.arizona.edu>)

Project Information
Center project name: L296506
Center clone name: 36_A1

Consensus Information
This consensus is derived from a shotgun assembly that has been
manually curated. It is the best representation of the BAC that we
can generate without further laboratory work. The draft assembly
has been edited, and if possible, ends identified by vector as well
as by BAC end sequences, and contigs ordered and oriented. Bases
that are not Ns are either above Q20 or manually edited. This
assembly was performed with Arachne (Genome Res. 2002 12: 177-189;
Genome Res. 2003 13: 91-96). All trace files for this project are
available at the NCBI trace repository
(<http://www.ncbi.nlm.nih.gov/Traces/trace.fcgi?>). An exact list of
reads used in this assembly are available at
<http://www.broad.mit.edu/annotation/plants/maize/randomclones.html>.

* NOTE: This is a 'working draft' sequence. It currently

TITLE
JOURNAL
COMMENT

Center name: TIGR
Seq lib id: ZGEP
----- Project information
Web site: <http://www.tigr.org/tdb/tgi/maize/>
Contact: maize@tigr.org

* NOTE: This is a 'working draft' sequence. It currently
* consists of 33 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence.
* as soon as it is available and the accession number will
* be preserved.
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* 1 2171: contig of 2171 bp in length
* 2172 2271: gap of unknown length
* 2272 3320: contig of 1049 bp in length
* 3321 3420: gap of unknown length
* 3421 14767: contig of 11347 bp in length
* 14768 14867: gap of unknown length
* 14868 15621: contig of 754 bp in length
* 15622 15721: gap of unknown length
* 15722 33188: contig of 17467 bp in length
* 33189 33288: gap of unknown length
* 33289 38383: contig of 5095 bp in length
* 38384 38483: gap of unknown length
* 38484 44947: contig of 6464 bp in length
* 44948 45047: gap of unknown length
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* 49263 49362: gap of unknown length
* 49363 51474: contig of 2112 bp in length
* 51475 52995: contig of 1421 bp in length
* 52996 53095: gap of unknown length
* 53096 55245: contig of 2150 bp in length
* 55246 59345: gap of unknown length
* 59346 59760: contig of 4415 bp in length
* 59761 59860: gap of unknown length
* 59861 65081: contig of 5221 bp in length
* 65082 65181: gap of unknown length
* 65182 72066: contig of 6885 bp in length
* 72067 72166: gap of unknown length
* 72167 76345: contig of 4179 bp in length
* 76346 76445: gap of unknown length
* 76446 78368: contig of 1923 bp in length
* 78369 78468: gap of unknown length
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* 164886 164985: gap of unknown length
* 164986 166737: contig of 1752 bp in length

	FEATURES	source
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gene
CDS

ORIGIN

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Query Match      66.0%; Score 19.8; DB 1; Length 10205;
Best Local Similarity 87.0%; Pred. No. 5.5e+02;
Matches 20; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      7  ACGCGTAGAGCAUCATGATCCUG 29
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Db      2363 ACGGTACGATCATGATCCCG 2385
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Search completed: January 8, 2006, 16:24:45
Job time : 1732 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 15:08:49 ; Search time 2518 Seconds
(without alignments)
557.431 Million cell updates/sec

Title: US-10-791-367-1

Perfect score: 30

Sequence: 1 caggcuacgcgtagcaucaatgatccctt 30

Scoring table: IDENTITY_NUC

Gapop 10_0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST:*

1: gb_est1:*
2: gb_est2:*
3: gb_est3:*
4: gb_hic:*
5: gb_est4:*
6: gb_est5:*
7: gb_est6:*
8: gb_est7:*
9: gb_gss1:*
10: gb_gss2:*
11: gb_gss3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	20.6	68.7	389	5	BW778170
C 2	20.6	68.7	526	7	CO786247 BL285D.D0
C 3	20.6	68.7	683	1	AU170138 AU170138
C 4	20.6	68.7	724	3	BJ716634 BJ716634
C 5	20.4	68.0	451	5	BJ716634 BJ716634
C 6	20.4	68.0	501	9	CE251821 tigr-gss-
C 7	20.4	68.0	521	9	AQ405865 HS5043.B
C 8	20.4	68.0	631	1	AJ745356 AJ745356
C 9	20.4	68.0	639	5	CA058120 ssalrga51
C 10	20.4	68.0	759	9	CC494201 CC494201
C 11	20.4	68.0	1332	8	DN711869 CLJ97-H05
C 12	20.4	68.0	1351	8	DN686483 CGX47-C07
C 13	20.4	68.0	1372	8	DN711868 CLJ97-H05
C 14	20.4	68.0	1413	8	DN686482 CGX47-C07
C 15	20.4	68.0	1669	10	CL640951 CH213-IN0
C 16	20.2	67.3	362	10	CZ914756 4013008E0
C 17	20.2	66.7	582	8	DN407618 LIBA006-0
C 18	20.2	66.7	697	9	CC145434 ZMMBB000
C 19	20.2	66.7	820	5	BU745550 CH1#010.E
C 20	20.2	66.7	862	9	CC982446 ZUAER575H
C 21	20.2	66.7	916	5	BU745549 CH1#010.E
C 22	19.6	65.3	393	5	BX565471 BX565471

C 23	19.6	65.3	500	5	BX58657
C 24	19.6	65.3	520	7	CO294995
C 25	19.6	65.3	573	5	BX562437
C 26	19.6	65.3	581	5	BX56173
C 27	19.6	65.3	591	5	BX568347
C 28	19.6	65.3	597	5	BX568861
C 29	19.6	65.3	637	5	BX551247
C 30	19.6	65.3	837	1	A1404024
C 31	19.6	65.3	1153	10	AG385831
C 32	19.4	64.7	414	9	AQ181478
C 33	19.4	64.7	713	9	BH035476
C 34	19.4	64.7	768	9	CC934167
C 35	19.4	64.7	777	3	BJ566348
C 36	19.4	64.7	792	5	BU363359
C 37	19.4	64.7	810	9	AQ875939
C 38	19.4	64.7	840	9	AQ251296
C 39	19.4	64.7	5463	4	CR858601
C 40	19.2	64.0	466	2	BE125931
C 41	19.2	64.0	585	8	DR063891
C 42	19.2	64.0	654	2	BF528338
C 43	19.2	64.0	666	9	BZ335768
C 44	19.2	64.0	724	10	CW487118
C 45	19.2	64.0	772	9	BZ628162

ALIGNMENTS

RESULT 1
BW778170/c

LOCUS
DEFINITION

BW778170 389 bp mRNA linear EST 10-AUG-2005
Amphioxus Branchiostoma floridae whole animal cDNA library,
gastrula whole animal Branchiostoma floridae cDNA clone bbga048003
5', mRNA sequence.

ACCESSION
VERSION

BW778170
BW778170.1 GI:66380664

KEYWORDS
SOURCE

Branchiostoma floridae (Florida lancelet)
Branchiostoma floridae
Eukaryota; Metazoa; Chordata; Cephalochordata; Branchiostomidae;

ORGANISM
REFERENCE

1 (bases 1 to 389)
Yu,J., Holland,L.Z., Shin-i,T., Kohara,Y., Satou,Y. and Satoh,N.
Expressed genes in Branchiostoma floridae
Unpublished (2005)
Contact: Tadasu Shin-i
Center For Genetic Resource Information
National Institute of Genetics
1111 Yata, Mishima, Shizuoka 411-8540, Japan
Tel: 81-559-81-6856
Fax: 81-559-81-6855

JOURNAL
COMMENT

Email: tshini@genes.nig.ac.jp
If you want to have a cDNA clone for this EST or if you have any
questions, please send an e-mail to Nori Satoh
(satoh@ascidian.zool.kyoto-u.ac.jp) and its cc to Yutaka Satou
(yutaka@ascidian.zool.kyoto-u.ac.jp).

FEATURES
source

Location/Qualifiers
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ORIGIN

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Best Local Similarity 77.8%; Pred. No. 2.5e+02;
Matches 21; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
QY 2 AGGCUACGGTAGAGCAUCATGATCCU 28

Df	: : : : :	195 AGGCTACAGTAGAGCAACTTGATGCT 169
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COT86247		
LOCUS		
DEFINITION		
SOURCE		
KEYWORDS		
ORGANISM		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
FEATURES		
source		
Query Match	68.7%;	Score 20.6; DB 7; Length 526;
Best Local Similarity	77.8%;	Pred. No. 2.6e+02;
Matches	21; Conservative	2; Mismatches 4; Indels 0; Gaps 0;
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REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
FEATURES		
source		
Query Match	68.7%;	Score 20.6; DB 7; Length 526;
Best Local Similarity	77.8%;	Pred. No. 2.6e+02;
Matches	21; Conservative	2; Mismatches 4; Indels 0; Gaps 0;
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Df	: : : : :	230 GCTACAGAGAGCGGCATGATCCTGT 256
RESULT 4		
BJ716634/c		
LOCUS		
DEFINITION		
ACCESSION		
VERSION		
KEYWORDS		
SOURCE		
ORGANISM		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
FEATURES		
source		
Query Match	68.7%;	Score 20.6; DB 1; Length 683;
Best Local Similarity	74.1%;	Pred. No. 2.7e+02;
Matches	20; Conservative	3; Mismatches 4; Indels 0; Gaps 0;
Qy	4 GCUACGGGTAGAGCAUCATGATCCUGT 30	
Df	: : : : :	483 GCTACAAGGAGCATCATGAGCCTGT 509
RESULT 4		
BJ716634/c		
LOCUS		
DEFINITION		
ACCESSION		
VERSION		
KEYWORDS		
SOURCE		
ORGANISM		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
FEATURES		
source		
Query Match	68.7%;	Score 20.6; DB 1; Length 683;
Best Local Similarity	74.1%;	Pred. No. 2.7e+02;
Matches	20; Conservative	3; Mismatches 4; Indels 0; Gaps 0;
Qy	4 GCUACGGGTAGAGCAUCATGATCCUGT 30	
Df	: : : : :	483 GCTACAAGGAGCATCATGAGCCTGT 509
RESULT 4		
BJ716634/c		
LOCUS		
DEFINITION		
ACCESSION		
VERSION		
KEYWORDS		
SOURCE		
ORGANISM		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
FEATURES		
source		
Query Match	68.7%;	Score 20.6; DB 1; Length 683;
Best Local Similarity	74.1%;	Pred. No. 2.7e+02;
Matches	20; Conservative	3; Mismatches 4; Indels 0; Gaps 0;
Qy	4 GCUACGGGTAGAGCAUCATGATCCUGT 30	
Df	: : : : :	483 GCTACAAGGAGCATCATGAGCCTGT 509
RESULT 4		
BJ716634/c		
LOCUS		
DEFINITION		
ACCESSION		
VERSION		
KEYWORDS		
SOURCE		
ORGANISM		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
FEATURES		
source		
Query Match	68.7%;	Score 20.6; DB 1; Length 683;
Best Local Similarity	74.1%;	Pred. No. 2.7e+02;
Matches	20; Conservative	3; Mismatches 4; Indels 0; Gaps 0;
Qy	4 GCUACGGGTAGAGCAUCATGATCCUGT 30	
Df	: : : : :	483 GCTACAAGGAGCATCATGAGCCTGT 509
RESULT 4		
BJ716634/c		
LOCUS		
DEFINITION		
ACCESSION		
VERSION		
KEYWORDS		
SOURCE		
ORGANISM		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
FEATURES		
source		
Query Match	68.7%;	Score 20.6; DB 1; Length 683;
Best Local Similarity	74.1%;	Pred. No. 2.7e+02;
Matches	20; Conservative	3; Mismatches 4; Indels 0; Gaps 0;
Qy	4 GCUACGGGTAGAGCAUCATGATCCUGT 30	
Df	: : : : :	483 GCTACAAGGAGCATCATGAGCCTGT 509
RESULT 4		
BJ716634/c		
LOCUS		
DEFINITION		
ACCESSION		
VERSION		
KEYWORDS		
SOURCE		
ORGANISM		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
COMMENT		
FEATURES		
source		
Query Match	68.7%;	Score 20.6; DB 1; Length 683;
Best Local Similarity	74.1%;	Pred. No. 2.7e+02;
Matches	20; Conservative	3; Mismatches 4; Indels 0; Gaps 0;
Qy	4 GCUACGGGTAGAGCAUCATGATCCUG	


```

Query Match      68.7%; Score 20.6; DB 3; Length 724;
Best Local Similarity 74.1%; Pred. No. 2.7e+02;
Matches 20; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 4 GCUACGCGTAGAGCAUCATGATCCUGT 30
    ||||| ||||| ||||| ||||| |||||
Db 605 GCTACAGAGAGCATCATGAGCCGT 579

RESULT 5
BX306829 451 bp mRNA linear EST 11-MAY-2004
LOCUS BX306829 tcay Oncorhynchus mykiss cDNA clone tcay0017b.e.20 3prlm,
DEFINITION mRNA sequence.
ACCESSION BX306829
VERSION BX306829.2 GI:40223548
KEYWORDS EST.
SOURCE Oncorhynchus mykiss (rainbow trout)
ORGANISM Oncorhynchus mykiss
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
REFERENCE 1 (bases 1 to 451)
AUTHORS Govoroun,M., Guiguen,Y. and Le Gac,F.
TITLE Construction and primary characterization of normalized cDNA
libraries in rainbow trout, Oncorhynchus mykiss
JOURNAL Unpublished (2003)
COMMENT On Apr 7, 2003 this sequence version replaced gi:29587474.
Contact: Guiguen Y
INRA - SCRIBE
Campus de beaulieu, RENNES cedex, 35042, France
Tel: 02.23.48.50.09
Fax: 02.23.48.50.20
Email: Yann.Guiguen@beaulieu.rennes.inra.fr
Sequence cleaned of vector, adaptor and repetitions. Contact us
at signa@support@jouy.inra.fr to obtain the chromatogram of this
sequence.
Plate: 0017 row: e column: 20
Seq primer: M13F.

FEATURES             source
    source
    1..451
    /organism="Oncorhynchus mykiss"
    /mol_type="mRNA"
    /db_xref="taxon:8022"
    /clone="tcay0017b.e.20"
    /tissue_type="adipose tissue, blood, brain,
differentiating gonads, gills, interrenal, intestine,
kidney, liver, muscle, ovary, pituitary, testis"
    /dev_stages="from embryos to adults"
    /lab_host="DH10B"
    /clone_lib="tcay"
    /note="Vector: pTT73D-pac; Rainbow trout multi-tissues -
normalized + 1 subtraction (tcay); Clone distribution :
AGENAE Resource centre. Francois PIUMI,
Francois.Piumi@jouy.inra.fr, INRA, CEA Radiobiologie et
Etude du genome (LREG), Domaine de Vilvert, 78352,
Jouv-en-Josas cedex, France, +33 (0) 1.34.65.28.02, +33
(0) 1.34.65.22.73"

ORIGIN
Query Match      68.0%; Score 20.4; DB 5; Length 451;
Best Local Similarity 70.0%; Pred. No. 3.1e+02;
Matches 21; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 CAGGCUACGCGTAGAGCAUCATGATCCUGT 30
    ||||| ||||| ||||| ||||| |||||
Db 263 CAGGCTAATGTTAGAGAAATCATGATCCITT 234

RESULT 7
AQ405865/c 521 bp DNA linear GSS 13-MAR-1999
LOCUS AQ405865 HS_5043_B2_D11_T7 RPCI-11 Human Male BAC Library Homo sapiens
DEFINITION genomic clone Plate=619 Col=22 Row=H, genomic survey sequence.
ACCESSION AQ405865
VERSION AQ405865.1 GI:4415853
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.
REFERENCE 1 (bases 1 to 521)
AUTHORS Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,
Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and
Hood,L.
TITLE Sequence-tagged connectors: A sequence approach to mapping and
scanning the human genome
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
PUBMED 10449764
COMMENT Contact: Mahairas GG, Wallace JC, Hood L
High Throughput Sequencing Center
University of Washington
401 Queen Anne Avenue North, Seattle, WA 98109, USA
Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwallace@u.washington.edu

tigr-gss-dog-17000335914549 Dog Library Canis familiaris genomic,
genomic survey sequence.
ACCESSION CE251821
VERSION CE251821.1 GI:35948893
KEYWORDS GSS.
SOURCE Canis familiaris (dog)
ORGANISM Canis familiaris
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Canidae;
Canis.
REFERENCE 1 (bases 1 to 501)
AUTHORS Kirkness,E.F., Bafna,V., Halpern,A.L., Levy,S., Remington,K.,
Ruch,D.B., Delcher,A.L., Pop,M., Wang,W., Fraser,C.M. and
Venter,J.C.
TITLE The dog genome: survey sequencing and comparative analysis
JOURNAL Science 301 (5641), 1898-1903 (2003)
PUBMED 14512627
COMMENT Contact: Kirkness EF
The Institute for Genomic Research
Department of Eukaryotic Genomics, TIGR, 9712 Medical Center Drive,
Rockville, MD 20850, USA
Tel: 301-838-0200
Fax: 301-838-0208
Email: ekirknes@tigr.org
Class: Shotgun.
Location/Qualifiers
    1..501
    /organism="Canis familiaris"
    /mol_type="genomic DNA"
    /strain="Standard Poodle"
    /db_xref="taxon:9615"
    /clone_lib="Dog Library"
    /note="Site 1: BatXI; Libraries were prepared from
peripheral blood"

ORIGIN
Query Match      68.0%; Score 20.4; DB 9; Length 501;
Best Local Similarity 70.0%; Pred. No. 3.1e+02;
Matches 21; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 CAGGCUACGCGTAGAGCAUCATGATCCUGT 30
    ||||| ||||| ||||| ||||| |||||
Db 263 CAGGCTAATGTTAGAGAAATCATGATCCITT 234

RESULT 7
AQ405865/c 521 bp DNA linear GSS 13-MAR-1999
LOCUS AQ405865 HS_5043_B2_D11_T7 RPCI-11 Human Male BAC Library Homo sapiens
DEFINITION genomic clone Plate=619 Col=22 Row=H, genomic survey sequence.
ACCESSION AQ405865
VERSION AQ405865.1 GI:4415853
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.
REFERENCE 1 (bases 1 to 521)
AUTHORS Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,
Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and
Hood,L.
TITLE Sequence-tagged connectors: A sequence approach to mapping and
scanning the human genome
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
PUBMED 10449764
COMMENT Contact: Mahairas GG, Wallace JC, Hood L
High Throughput Sequencing Center
University of Washington
401 Queen Anne Avenue North, Seattle, WA 98109, USA
Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwallace@u.washington.edu

```

Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong (pieter@dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm) or from Resear h Genetics (info@resgen.com). BAC end Web Server: <http://www.htsc.washington.edu>
 Plate: 619 row: H column: 22
 Seq primer: T7
 Class: BAC ends
 High quality sequence stop: 521.
 Location/Qualifiers
 1. .521

FEATURES

source
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"
 /clone="Plate=619 Col=22 Row=H"
 /sex="male"
 /clone_lib="RPCI-11 Human Male BAC Library"
 /vector="pBACE3.6; Site 1: EcoRI; Site 2: EcoRI;
 Male blood DNA was isolated from one randomly chosen donor and partially digested with a combination of EcoRI and EcoRI Methylase. Size selected DNA was cloned into the pBACE3.6 vector at EcoRI sites"

ORIGIN

Query Match 68.0%; Score 20.4; DB 9; Length 521;
 Best Local Similarity 73.3%; Pred. No. 3.2e+02;
 Matches 22; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 CAGGCUACCGGTAGAGCAUCATGATCCUGT 30
 |||||
 Db 209 CAGCCACCGGTGGAGCATCATGCTCTTT 180
 |||||

RESULT 8

AJ745356/c
 LOCUS
 DEFINITION 631 bp mRNA linear EST 01-JUL-2004
 turgidum cDNA clone 05716R, mRNA sequence.
 ACCESSION AJ745356
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM
 Triticum turgidum
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
 Poideae; Triticeae; Triticum.
 1 (bases 1 to 631)
 Cifarelli,R.A., D'Onofrio,O. and Lauria,G.
 Expressed Sequences Tags (ESTs) library from totipotent cDNA of durum wheat
 Unpublished (2003)
 Contact: Cifarelli RA
 Biotechnology
 Metapontum Agrobios
 S.S. Jonica 106 km 448-2, 75010 Metaponto (MT), Italy.
 Location/Qualifiers
 1. .631

FEATURES

source
 /organism="Triticum turgidum"
 /mol_type="mRNA"
 /db_xref="taxon:4571"
 /clone="05716R"
 /tissue_type="etiolated seedling"
 /dev_stage="20 days old"
 /clone_lib="Triticum turgidum etiolated seedling 20 days old"

ORIGIN

Query Match 68.0%; Score 20.4; DB 1; Length 631;
 Best Local Similarity 76.7%; Pred. No. 3.2e+02;
 Matches 23; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
 QY 1 CAGGCUACCGGTAGAGCAUCATGATCCUGT 30

Db 388 CAGGCCACGCGAAGAGCTGCTTAATCCGT 359
 |||||

RESULT 9

CA058120/c
 LOCUS
 DEFINITION 639 bp mRNA linear EST 04-MAR-2003
 ssalrga513168 mixed_tissue Salmo salar cDNA, mRNA sequence.
 ACCESSION CA058120
 VERSION CA058120.1 GI:24388363
 KEYWORDS
 SOURCE
 ORGANISM
 Salmo salar
 Salmo salar (Atlantic salmon)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Actinopterygii; Neopterygii; Teleostei; Euteleostei;
 Protacanthopterygii; Salmoniformes; Salmonidae; Salmo.
 1 (bases 1 to 639)

REFERENCE

AUTHORS
 Rise,M.L., von Schalburg,K.R., Brown,G.D., Mawer,M.A., Devlin,R.H.,
 Kuipers,N., Busby,M., Beetz-Sargent,M., Alberto,R., Gibbs,A.R.,
 Hunt,P., Shukin,R., Zelnik,J.A., Nelson,C., Jones,S.R.,
 Smallegange,D.E., Jones,S.J., Schein,J.E., Marra,M.A.,
 Butterfield,Y.S., Stott,J.M., Ng,S.H., Davidson,W.S. and Koop,B.P.
 Development and application of a salmonid EST database and cDNA
 microarray: data mining and interspecific hybridization
 characteristics
 Genome Res. 14 (3), 478-490 (2004)

JOURNAL

PUBMED
 COMMENT
 Contact: Koop BF
 Centre for Biomedical Research
 University of Victoria
 PO Box 3020 STN CSC, Victoria BC, V8W 3N5, Canada
 Tel: 250 472 4067
 Fax: 250 472 4075
 Email: bkoop@uvic.ca

FEATURES

source
 1. .639
 /organism="Salmo salar"
 /mol_type="mRNA"
 /strain="McConnell"
 /db_xref="taxon:8030"
 /clone_lib="mixed tissue"
 /note="Vector: pCMVSPORT6; Library Creator: Research Genetics ; Atlantic salmon tissue contributors: Carlo Biagi, Mitch Uh and Robert Devlin (DFO, Vancouver, B.C.), Simon Jones (PBS, Nanaimo, B.C.), Seaspring Hatchery (Crofton, B.C.), Rachel Roper (University of Victoria)"

ORIGIN

Query Match 68.0%; Score 20.4; DB 5; Length 639;
 Best Local Similarity 70.0%; Pred. No. 3.3e+02;
 Matches 21; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 CAGGCUACCGGTAGAGCAUCATGATCCUGT 30
 |||||
 Db 412 CTGGCTACAGAAGAGCATCATGCCCTGT 383
 |||||

RESULT 10

CC494201/c
 LOCUS
 DEFINITION 759 bp DNA linear GSS 17-JUN-2003
 CH240_329K8.T7 CHORI-240 Bos taurus genomic clone CH240_329K8,
 genomic survey sequence.
 ACCESSION CC494201
 VERSION CC494201.1 GI:31806325
 KEYWORDS
 SOURCE
 ORGANISM
 Bos taurus (cow)
 Bos taurus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Stanford Human Genome Center
Stanford University School of Medicine
975 S California Ave, Palo Alto, CA 94304, USA
Tel: 650 320 5917
Fax: 650 320 5801
Email: jane@shgc.stanford.edu
Plate: 47
High quality sequence stop: 834.

FEATURES

source

```
1. .1351
  Location/Qualifiers
    /organism="Gasterosteus aculeatus"
    /mol_type="mRNA"
    /strain="Conner Creek sticklebacks, WA USA"
    /db_xref="taxon:69293"
    /clone="CGX47-C07"
    /sex="mixed male and female"
    /tissue_type="eyes"
    /dev_stage="adult"
    /lab_host="DH10B (T1 phage resistant)"
    /clone_lib="SHGC-CGX"
    /note="Vector: Express 1; Total and poly A+ RNA was isolated from the indicated stickleback tissue, and a cDNA library was constructed in the Express 1 plasmid vector by Open Biosystems. First strand cDNA synthesis was primed with an 54 bp linker primer containing an oligodT sequence preceded by a synthetic NotI site (first strand primer: 5'-GACTAGTTCTAGATCGAGCGGCCG(T)25-3'). Following second strand synthesis, cDNAs were made blunt at the end corresponding to the original 5 prime end of mRNA, and cloned directionally into the NotI and EcoRV sites of Express 1. Note that the EcoRV site is typically destroyed in the blunt end cloning, leaving a junction of the form 'xxxATC' (where is ATC is the second half of the EcoRV site, and xxx is derived from the cDNA sequence). A map of the Express 1 vector is available at: http://www.openbiosystems.com/cdna_library_construction_fa q.php#8 The primary library was transformed and amplified in DH10B (T1 phage resistant) bacteria. Clones available from Open Biosystems: http://www.openbiosystems.com/stickleback"
```

ORIGIN

```
Query Match      68.0%; Score 20.4; DB 8; Length 1351;
Best Local Similarity 70.0%; Pred. No. 3.6e+02;
Matches 21; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 CAGGCUACGCGTAGAGCAUCATGATCCUCT 30
   |||||:| | | | | | | | | | | | | | | | | | | |
DB 797 CGGGCTACAAGCAGAGCATCATGCGCCTGT 826
```

RESULT 13

```
DN711868/c
LOCUS DN711868.1 1372 bp mRNA linear EST 30-MAR-2005
DEFINITION CLJ97-H05.3', mRNA sequence.
ACCESSION DN711868
VERSION DN711868.1 GI:62076907
KEYWORDS EST.
SOURCE Gasterosteus aculeatus (three spined stickleback)
ORGANISM Gasterosteus aculeatus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Gasterosteiformes;
Gasterosteidae; Gasterosteus.
1 (bases 1 to 1372)
Kingsley,D.M., Peichel,C., Balabhadra,S., Grimwood,J., Dickson,M.,
Schmutz,J. and Myers,R.M.
Expressed sequence tags from Gasterosteus aculeatus
Unpublished (2003)
Contact: Grimwood, Jane
JOURNAL
COMMENT
Stanford Human Genome Center
Stanford University School of Medicine
975 S California Ave, Palo Alto, CA 94304, USA
```

975 S California Ave, Palo Alto, CA 94304, USA
Tel: 650 320 5917
Fax: 650 320 5801
Email: jane@shgc.stanford.edu
Plate: 97
High quality sequence stop: 843.

FEATURES

source

```
1. .1372
  Location/Qualifiers
    /organism="Gasterosteus aculeatus"
    /mol_type="mRNA"
    /strain="Bitruifjordur marine sticklebacks, Iceland"
    /db_xref="taxon:69293"
    /clone="CLJ97-H05"
    /sex="mixed male and female"
    /tissue_type="whole larva"
    /dev_stage="21 day old larvae collected at Swarup Stage 30 (J. Embryol. Exp. Morphol 6: 373-383.1958)"
    /lab_host="DH10B (T1 phage resistant)"
    /clone_lib="SHGC-CLJ"
    /note="Vector: Express 1; Total and poly A+ RNA was isolated from the indicated stickleback tissue, and a cDNA library was constructed in the Express 1 plasmid vector by Open Biosystems. First strand cDNA synthesis was primed with an 54 bp linker primer containing an oligodT sequence preceded by a synthetic NotI site (first strand primer: 5'-GACTAGTTCTAGATCGAGCGGCCG(T)25-3'). Following second strand synthesis, cDNAs were made blunt at the end corresponding to the original 5 prime end of mRNA, and cloned directionally into the NotI and EcoRV sites of Express 1. Note that the EcoRV site is typically destroyed in the blunt end cloning, leaving a junction of the form 'xxxATC' (where is ATC is the second half of the EcoRV site, and xxx is derived from the cDNA sequence). A map of the Express 1 vector is available at: http://www.openbiosystems.com/cdna_library_construction_fa q.php#8 The primary library was transformed and amplified in DH10B (T1 phage resistant) bacteria. Clones available from Open Biosystems: http://www.openbiosystems.com/stickleback"
```

ORIGIN

```
Query Match      68.0%; Score 20.4; DB 8; Length 1372;
Best Local Similarity 70.0%; Pred. No. 3.6e+02;
Matches 21; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 CAGGCUACGCGTAGAGCAUCATGATCCUCT 30
   |||||:| | | | | | | | | | | | | | | | | | | |
DB 692 CGGGCTACAAGCAGAGCATCATGCGCCTGT 663
```

RESULT 14

```
DN686482/c
LOCUS DN686482.1 1413 bp mRNA linear EST 30-MAR-2005
DEFINITION CGX47-C07.x1d-t SHGC-CGX Gasterosteus aculeatus cDNA clone
ACCESSION CGX47-C07 3', mRNA sequence.
VERSION DN686482
KEYWORDS DN686482.1 GI:62035848
SOURCE EST.
ORGANISM Gasterosteus aculeatus (three spined stickleback)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Gasterosteiformes;
Gasterosteidae; Gasterosteus.
1 (bases 1 to 1413)
Kingsley,D.M., Peichel,C., Balabhadra,S., Grimwood,J., Dickson,M.,
Schmutz,J. and Myers,R.M.
Expressed sequence tags from Gasterosteus aculeatus
Unpublished (2003)
Contact: Grimwood, Jane
JOURNAL
COMMENT
Stanford Human Genome Center
Stanford University School of Medicine
975 S California Ave, Palo Alto, CA 94304, USA
```

Email: jane@shgc.stanford.edu
Plate: 1
Class: BAC ends
High quality sequence start: 35
High quality sequence stop: 462.

FEATURES

```
1. 1669
/organism="Gasterosteus aculeatus"
/mol_type="genomic DNA"
/strain="Salmon River"
/db_xref="taxon:69293"
/clone="CH213-IN08"
/sex="Mixed"
/cell_type="Blood"
/clone_id="CH213"
```

/note="Vector: pTARBAC2.1; Site_1: EcoRI; The sequence of the clone was established as a mapping and sequencing collaboration at the Stanford Genome Evolution Center, funded by the NIH Centers of Excellence in Genomic Science (CEGS) initiative (<http://cegs.stanford.edu>). The clone was isolated from the BAC library CHORI-213 built by Pieter deJong in collaboration with the Stanford Genome Evolution Center (<http://www.chori.org/bacpac/>). Clones may be purchased from BACPAC Resources (http://www.chori.org/bacpac/ordering_information.html). "

Summary

Query Match 68.0%; Score 20.4; DB 10; Length 1669;
Best Local Similarity 70.0%; Pred. No. 3.7e+02;
Matches 21; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY

1 CAGGCUACGGCTAGAGCAUCATGATCCUGT 30
| | | | | | | | | | : | | |
D6

493 CGGGCTACAAGCAGAGCATCATGCCCTGT 522

RESULT 15
CL640951
LOCUS
CL640951 1669 bp DNA linear GSS 06-JUL-2004
DEFINITION
CH213-IN08.T7 CH213 *Gasterosteus aculeatus* genomic clone CH213-IN08
5', genomic survey sequence.

ACCESSION	CL640951
VERSION	CL640951.1 GI:49660375

VERSION CL640951.1 GI:49660375
KEYWORDS GSS.

KEYWORDS	GSS.
SOURCE	Gasterosteus aculeatus (three spined stickleback)

SOURCE	ORGANISM
Gasterosteus aculeatus (three spined stickleback)	Gasterosteus aculeatus
	Gasterosteus aculeatus

ORGANISM *Gasterosteus aculeatus*
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Gasterosteiformes;

Acanthomorpha; Acanthopterygii; Percomorpha; Gasterosteiformes; Gasterosteidae; Gasterosteus.

Gasterosteidae; Gasterosteus.
1 (bases 1 to 169)

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